

## OASE 032201

# OASE BioSmart 5000 Pond Filter Instruction Manual

Model: 032201 | Brand: OASE

## 1. INTRODUCTION AND OVERVIEW

The OASE BioSmart 5000 is an innovative and efficient flow-through filter designed for biological and mechanical pond filtration, ensuring maximum oxygenation. It features a sludge drain for easy removal of coarse debris, eliminating the need to manually remove or unclog filter foams. The filter's distinct zones promote the growth of beneficial bacteria crucial for the nitrogen cycle, enhancing the conversion of harmful ammonia in your pond. This technology supports a healthy environment for local wildlife and fish. The unit includes a built-in cleaning indicator and a water temperature display for minimal maintenance. The BioSmart 5000 is suitable for ponds up to 5,000 gallons (without fish). For enhanced performance, it can be integrated with Vitronic 18-36 Watt UV Clarifiers. When combined with an AquaMax Eco Classic 1200-2700 or AquaMax Eco Premium 2000-3000 pump and a Vitronic UV Clarifier, the system qualifies for the OASE Water Guarantee.



Figure 1: Main view of the OASE BioSmart 5000 Pond Filter.

## 2. PRODUCT FEATURES

- Innovative flow-through filter design with biological and mechanical filtration for maximum oxygenation.
- Suitable for ponds up to 5,000 gallons (without fish).
- High-surface area filter foams provide exceptional biological filtration capability.
- Distinct filter zones promote the settlement of beneficial bacteria for different phases of the nitrogen cycle, increasing the conversion of harmful ammonia.
- Advanced features include a built-in cleaning indicator and a water temperature display for minimal maintenance.

## 3. PACKAGE CONTENTS

The OASE BioSmart 5000 Pond Filter package includes the following components:

- BioSmart 5000 Filter Unit
- Hose tail adaptors
- Gaskets

- Retaining rings
- Hose clamps

## 4. SETUP INSTRUCTIONS

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Proper setup is crucial for the efficient operation of your OASE BioSmart 5000 Pond Filter. Follow these steps for installation:

1. **Placement:** Position the filter unit on a stable, level surface next to your pond. Ensure it is placed higher than the pond's water level, as the BioSmart filter is gravity-dependent for water return.
2. **Pump Connection:** Connect a suitable pond pump (e.g., AquaMax Eco Classic or Premium) to the filter's inlet. Use the provided hose tail adaptors, gaskets, retaining rings, and hose clamps to secure all connections tightly.
3. **Water Return:** Connect the filter's outlet to a return line that directs filtered water back into the pond. Ensure a downward gradient for the return line to facilitate proper flow.
4. **Sludge Drain Connection:** Attach a hose to the sludge drain outlet. This hose should be directed to a suitable drainage area, such as a garden bed, for easy waste removal during maintenance.
5. **Optional UV Clarifier:** If using an optional Vitronic UV Clarifier, install it according to its specific instructions and connect it in-line with the filter system.
6. **Power Connection:** Once all plumbing is secure, connect the pump and any optional UV clarifier to a GFCI-protected power outlet.
7. **Initial Start-up:** Turn on the pump. Water will begin to fill the filter. Check all connections for leaks. Allow the system to run continuously.

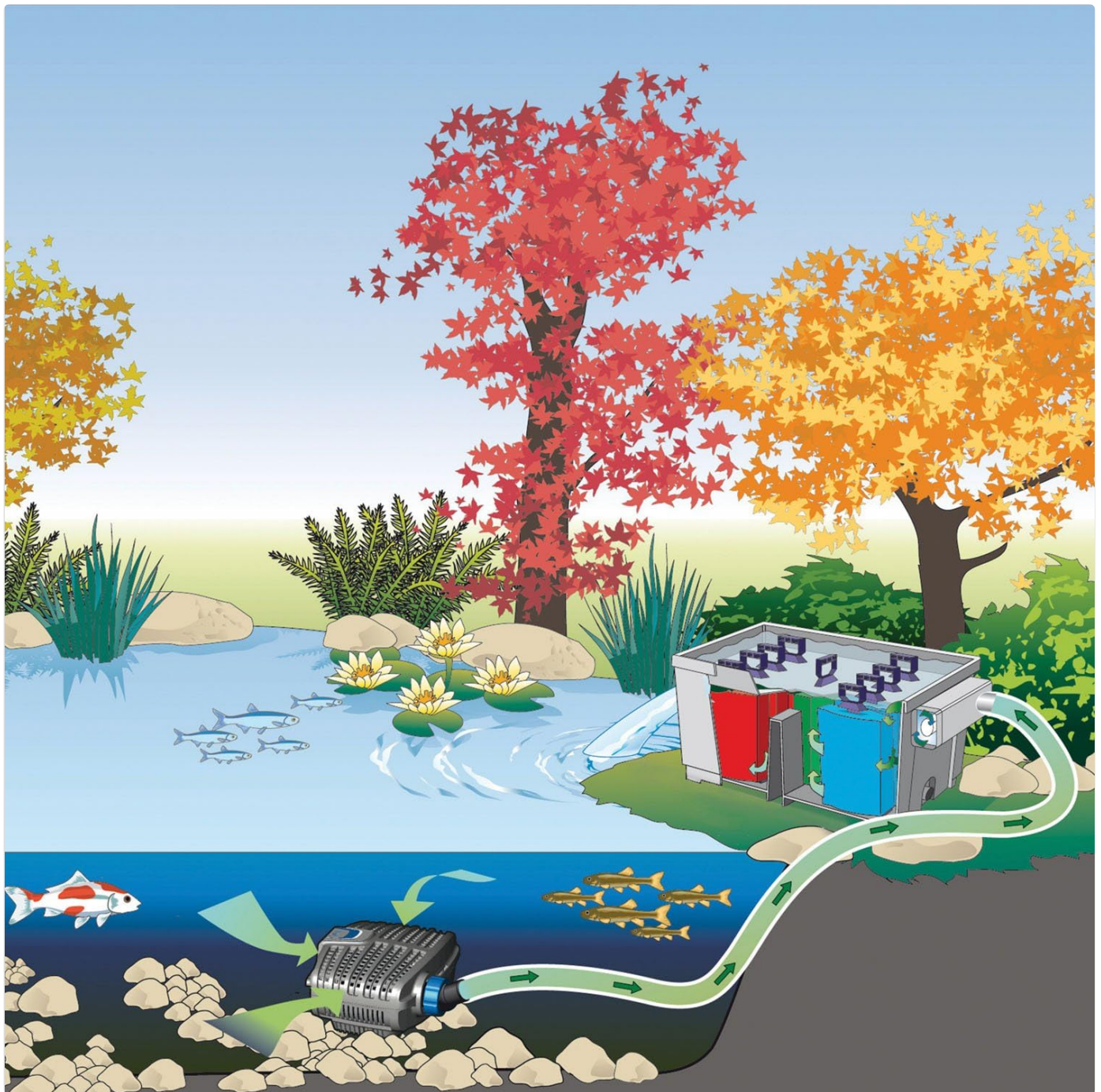


Figure 2: Illustrative diagram of the BioSmart filter system setup in a pond environment.

## 5. OPERATING INSTRUCTIONS

The OASE BioSmart 5000 Pond Filter is designed for continuous operation to maintain optimal pond water quality. Once properly installed and started, the filter will perform its biological and mechanical filtration functions automatically.

- **Continuous Filtration:** Ensure the pump is running continuously to circulate pond water through the filter. This constant flow is essential for effective biological and mechanical purification.
- **Cleaning Indicator:** Monitor the built-in cleaning indicator. When the indicator signals that cleaning is required, proceed to the maintenance section.
- **Water Temperature Display:** The integrated display shows the current water temperature, allowing you to monitor pond conditions.



Figure 3: Top view of the BioSmart filter, illustrating the internal layout and controls.



Figure 4: Detail of the water temperature display on the filter unit.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and effectiveness of your BioSmart filter. The design minimizes manual effort.

1. **Cleaning Indicator:** When the cleaning indicator signals, it's time to clean the filter foams.
2. **Sludge Drain:** Utilize the integrated sludge drain to remove coarse debris. Simply open the drain valve and allow the accumulated sludge to flow out. This process cleans the filter foams without requiring their removal or manual unclogging. Direct the drained water to a suitable area, such as a garden, as it contains nutrient-rich pond waste.
3. **Filter Foam Inspection:** Periodically inspect the filter foams for excessive wear or damage. Replace them if necessary to maintain optimal filtration performance.
4. **Winterization:** Before the first frost, disconnect the filter and store it in a frost-free location. Clean the unit thoroughly before storage.

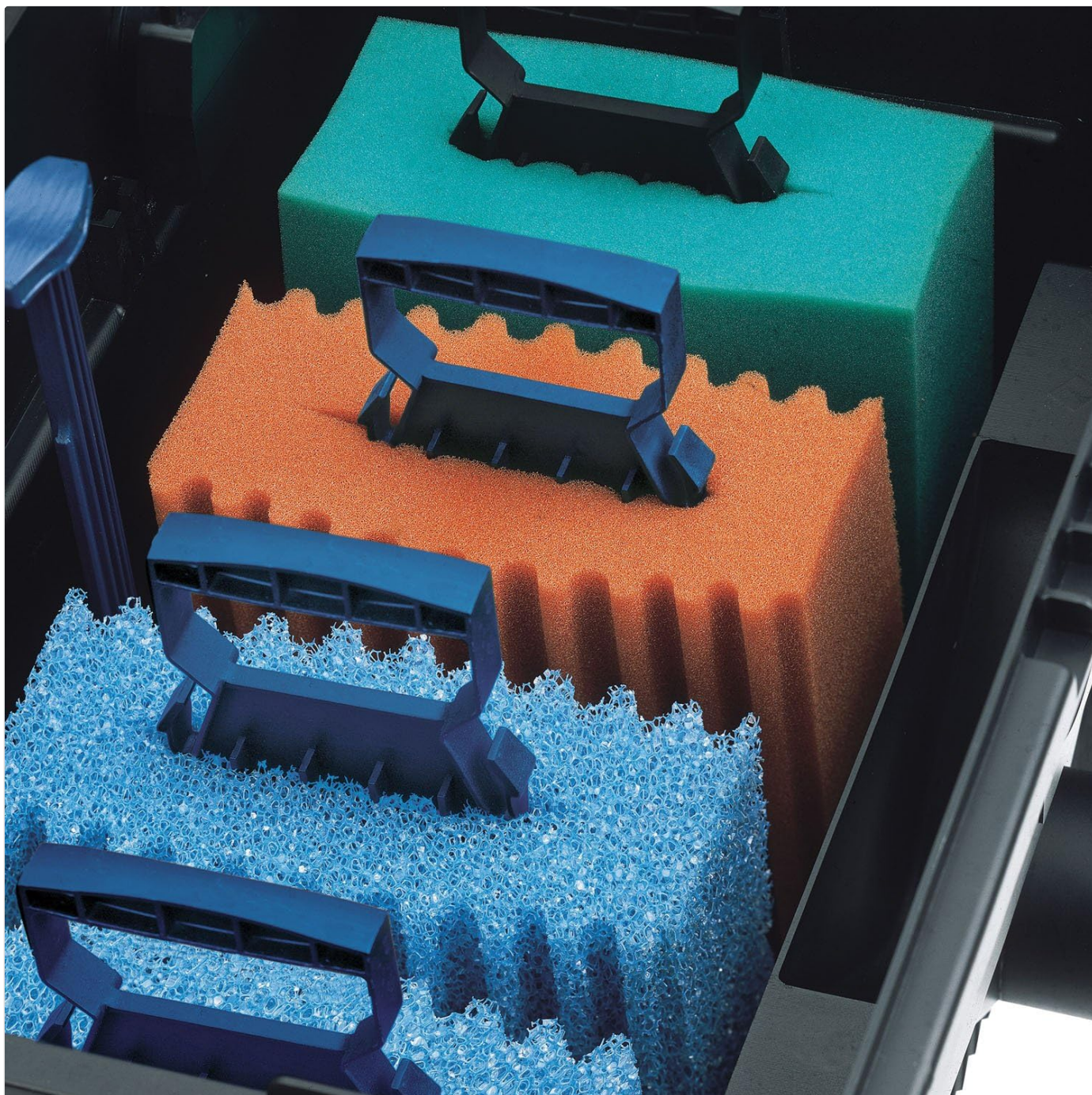


Figure 5: View of the distinct filter foams within the BioSmart unit, designed for biological and mechanical filtration.

## 7. TROUBLESHOOTING

If you encounter issues with your OASE BioSmart 5000 Pond Filter, consider the following common troubleshooting steps:

- **Reduced Water Flow:**

- Check if the pump is clogged or requires cleaning.
- Ensure all hoses are free of kinks or blockages.
- Verify the filter foams are not excessively dirty; perform a sludge drain cleaning cycle.

- **Cloudy Pond Water:**

- Confirm the filter is running continuously.
- Perform a thorough filter cleaning using the sludge drain.
- Check if the pond size exceeds the filter's capacity, especially if fish are present.

- If using a UV clarifier, check its bulb for functionality and replace if necessary.

- **Leaks:**

- Inspect all hose connections and ensure clamps are tightened securely.
- Verify gaskets are properly seated and not damaged.

- **Cleaning Indicator Not Functioning:**

- Ensure the indicator mechanism is free from debris.

If problems persist after attempting these steps, please contact OASE customer support for further assistance.

## 8. SPECIFICATIONS

|                          |                                |
|--------------------------|--------------------------------|
| Brand                    | OASE                           |
| Model Number             | 032201                         |
| Item Weight              | 14.3 Pounds                    |
| Manufacturer             | OASE                           |
| UPC                      | 706759569293                   |
| Manufacturer Part Number | 032201                         |
| Item Type Name           | OASE BioSmart 5000 Pond Filter |

## 9. WARRANTY AND SUPPORT

The OASE BioSmart 5000 Pond Filter comes with a **3-year warranty**. For warranty claims, technical support, or any product-related inquiries, please contact OASE customer service. Retain your proof of purchase for warranty validation.

For more information, visit the official OASE website or refer to the contact details provided in your product packaging.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question